

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> <<GetEnameSalJob00>>

```
2  DECLARE
3  PEmpno Emp.Empno%TYPE := &PEmpno;
4  V_Ename      Emp.Ename%TYPE;
5  V_Sal        Emp.Sal%TYPE;
6  V_Job        Emp.Job%TYPE;
7  BEGIN
8  SELECT
9  Ename, Sal, Job
10 INTO
11 V_Ename, V_Sal, V_Job
12 FROM Emp
13 WHERE Empno = PEmpno;
14 DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');
15 DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);
16 DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
17 DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
18 END GetEnameSalJob00;
19 /
```

Enter value for pempno: 7839

The Details of Employee 7839 Are...

The Name of The Employee is : KING

The Salary of The Employee is : 5000

The Job of The Employee is : PRESIDENT

PL/SQL procedure successfully completed.

SQL> /

Enter value for pempno: 7788

The Details of Employee 7788 Are...

The Name of The Employee is : SCOTT

The Salary of The Employee is : 3000

The Job of The Employee is : ANALYST

PL/SQL procedure successfully completed.

SQL> CREATE OR REPLACE PROCEDURE

```
2  GetEnameSalJob00
3  (
4  PEmpno      Emp.Empno%TYPE
5  )
6  AS
7  V_Ename      Emp.Ename%TYPE;
8  V_Sal        Emp.Sal%TYPE;
9  V_Job        Emp.Job%TYPE;
10 BEGIN
```

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```
11 SELECT
12 Ename, Sal, Job
13 INTO
14 V_Ename, V_Sal, V_Job
15 FROM Emp
16 WHERE Empno = PEmpno;
17 DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');
18 DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);
19 DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
20 DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
21 END GetEnameSalJob00;
22 /
```

Procedure created.

SQL> DESC USER_OBJECTS

Name	Null?
------	-------

-----	-----
OBJECT_NAME	
VARCHAR2(128)	
SUBOBJECT_NAME	
VARCHAR2(30)	
OBJECT_ID	
NUMBER	
DATA_OBJECT_ID	
NUMBER	
OBJECT_TYPE	
VARCHAR2(19)	
CREATED	
DATE	
LAST_DDL_TIME	
DATE	
TIMESTAMP	
VARCHAR2(19)	
STATUS	
VARCHAR2(7)	
TEMPORARY	
VARCHAR2(1)	
GENERATED	
VARCHAR2(1)	
SECONDARY	
VARCHAR2(1)	

SQL> COL OBJECT_NAME FORMAT A20

SQL> COL OBJECT_TYPE FORMAT A12

SQL> COL STATUS FORMAT A10

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```
SQL> SELECT
  2  Object_Name,
  3  Object_Type,
  4  Status
  5  FROM USER_OBJECTS
  6  WHERE OBJECT_NAME = 'GETENAMESALJOB00';
```

OBJECT_NAME	OBJECT_TYPE	STATUS
GETENAMESALJOB00	PROCEDURE	VALID

```
SQL> SELECT
  2  TO_CHAR(Line, 99)||'>', Text
  3  FROM USER_SOURCE
  4  WHERE NAME = 'GETENAMESALJOB00';
```

```
TO_C
----
TEXT
```

```
-----
1>
PROCEDURE
```

```
2>
GetEnameSalJob00
```

```
3>
(
```

```
4>
PEmpno      Emp.Empno%TYPE
```

```
5>
)
```

```
TO_C
----
TEXT
```

```
-----
6>
AS
```

```
7>
V_Ename      Emp.Ename%TYPE;
```

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```
8>
V_Sal          Emp.Sal%TYPE;

9>
V_Job          Emp.Job%TYPE;

10>
BEGIN

TO_C
-----
TEXT
-----

11>
SELECT

12>
Ename, Sal, Job

13>
INTO

14>
V_Ename, V_Sal, V_Job

15>
FROM Emp

TO_C
-----
TEXT
-----

16>
WHERE Empno = V_Empno;

17>
DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');

18>
DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);

19>
DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
```

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```
20>
DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
```

TO_C

TEXT

```
21>
END GetEnameSalJob00;
```

21 rows selected.

```
SQL> COL Text FORMAT A100
```

```
SQL> R
```

```
1  SELECT
2  TO_CHAR(Line, 99)||'>', Text
3  FROM USER_SOURCE
4* WHERE NAME = 'GETENAMESALJOB00'
```

TO_C TEXT

```
1> PROCEDURE
2> GetEnameSalJob00
3> (
4>   PEmpno      Emp.Empno%TYPE
5> )
6> AS
7>   V_Ename      Emp.Ename%TYPE;
8>   V_Sal        Emp.Sal%TYPE;
9>   V_Job        Emp.Job%TYPE;
10> BEGIN
11> SELECT
12>   Ename, Sal, Job
13> INTO
14>   V_Ename, V_Sal, V_Job
15> FROM Emp
16> WHERE Empno = PEmpno;
17> DBMS_OUTPUT.PUT_LINE('The Details of Employee '||PEmpno||' Are...');
```

TO_C TEXT

```
18> DBMS_OUTPUT.PUT_LINE('The Name of The Employee is : '||V_Ename);
19> DBMS_OUTPUT.PUT_LINE('The Salary of The Employee is : '||V_Sal);
```

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```
20> DBMS_OUTPUT.PUT_LINE('The Job of The Employee is : '||V_Job);
21> END GetEnameSalJob00;
```

21 rows selected.

SQL> cl scr

```
SQL> EXECUTE GetEnameSalJob00(7839)
The Details of Employee 7839 Are...
The Name of The Employee is : KING
The Salary of The Employee is : 5000
The Job of The Employee is : PRESIDENT
```

PL/SQL procedure successfully completed.

```
SQL> EXEC GetEnameSalJob00(7788)
The Details of Employee 7788 Are...
The Name of The Employee is : SCOTT
The Salary of The Employee is : 3000
The Job of The Employee is : ANALYST
```

PL/SQL procedure successfully completed.

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &Gempno;
  3  BEGIN
  4  GetEnameSalJob00(V_Empno);
  5  END;
  6  /
```

```
Enter value for gempno: 7839
The Details of Employee 7839 Are...
The Name of The Employee is : KING
The Salary of The Employee is : 5000
The Job of The Employee is : PRESIDENT
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 7788
The Details of Employee 7788 Are...
The Name of The Employee is : SCOTT
The Salary of The Employee is : 3000
The Job of The Employee is : ANALYST
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 2234
```

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DECLARE

*

ERROR at line 1:

ORA-01403: no data found

ORA-06512: at "SCOTT.GETENAMESALJOB00", line 11

ORA-06512: at line 4

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &Gempno;
3  BEGIN
4  GetEnameSalJob00(V_Empno);
5  EXCEPTION
6  WHEN NO_DATA_FOUND THEN
7  DBMS_OUTPUT.PUT_LINE('Server Says : '||SQLCODE||' With Message :
'||SQLERRM);
8* END;
```

SQL> /

Enter value for gempno: 7839

The Details of Employee 7839 Are...

The Name of The Employee is : KING

The Salary of The Employee is : 5000

The Job of The Employee is : PRESIDENT

PL/SQL procedure successfully completed.

SQL> /

Enter value for gempno: 2234

Server Says : 100 With Message : ORA-01403: no data found

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &Gempno;
3  BEGIN
4  GetEnameSalJob00(V_Empno);
5  EXCEPTION
6  WHEN NO_DATA_FOUND THEN
7  DBMS_OUTPUT.PUT_LINE('Server Says : '||SQLCODE||' With Message :
'||SQLERRM);
8  RAISE_APPLICATION_ERROR(-20000, 'Application Says '||V_Deptno||'
Employee is Not Existing');
```

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```
9* END;
SQL> /
Enter value for gempno: 7839
RAISE_APPLICATION_ERROR(-20000, 'Application Says '||V_Deptno||' Employee
is Not Existing');
```

```
ERROR at line 8:
ORA-06550: line 8, column 54:
PLS-00201: identifier 'V_DEPTNO' must be declared
ORA-06550: line 8, column 1:
PL/SQL: Statement ignored
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &Gempno;
3  BEGIN
4  GetEnameSalJob00(V_Empno);
5  EXCEPTION
6  WHEN NO_DATA_FOUND THEN
7  DBMS_OUTPUT.PUT_LINE('Server Says : '||SQLCODE||' With Message :
'||SQLERRM);
8  RAISE_APPLICATION_ERROR(-20000, 'Application Says '||V_Empno||'
Employee is Not Existing');
9* END;
SQL> /
Enter value for gempno: 7839
The Details of Employee 7839 Are...
The Name of The Employee is : KING
The Salary of The Employee is : 5000
The Job of The Employee is : PRESIDENT
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 2234
Server Says : 100 With Message : ORA-01403: no data found
DECLARE
*
ERROR at line 1:
ORA-20000: Application Says 2234 Employee is Not Existing
ORA-06512: at line 8
```

```
SQL> cl scr
```

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SQL> ED

Wrote file afiedt.buf

```
1  <<EmpInsert>>
2  DECLARE
3    P_Empno Emp.Empno%TYPE := &P_Empno;
4    P_Ename Emp.Ename%TYPE := '&P_Ename';
5    P_Sal Emp.Sal%TYPE := &P_Sal;
6    P_Deptno Emp.Deptno%TYPE := &P_Deptno;
7    P_Job Emp.Job%TYPE := '&P_Job';
8    P_Comm Emp.Comm%TYPE := &P_Comm;
9    P_HireDate Emp.HireDate%TYPE := '&P_HireDate';
10   P_MGR Emp.MGR%TYPE := &P_MGR;
11   BEGIN
12   INSERT INTO
13   Emp (Empno, Ename, Sal, Deptno, Job, Comm, HireDate, MGR)
14   VALUES (P_Empno, UPPER(P_Ename), P_Sal, P_Deptno, UPPER(P_Job),
P_Comm, P_HireDate, P_MGR);
15   EXCEPTION
16   WHEN DUP_VAL_ON_INDEX THEN
17     RAISE_APPLICATION_ERROR(-20001, 'Employee already
18     exists');
19   WHEN OTHERS THEN
20     RAISE_APPLICATION_ERROR(-20011, SQLERRM);
21* END;
```

SQL> /

Enter value for p_empno: 7939
Enter value for p_ename: SURESH
Enter value for p_sal: 2000
Enter value for p_deptno: 30
Enter value for p_job: CLERK
Enter value for p_comm: NULL
Enter value for p_hiredate: 25-NOV-14
Enter value for p_mgr: 7698

PL/SQL procedure successfully completed.

SQL> ROLLBACK;

Rollback complete.

```
SQL> CREATE OR REPLACE PROCEDURE
1  EmpInsert
2  (
3  (
4    P_Empno Emp.Empno%TYPE,
5    P_Ename Emp.Ename%TYPE,
6    P_Sal Emp.Sal%TYPE,
7    P_Deptno Emp.Deptno%TYPE,
```

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```
8   P_Job Emp.Job%TYPE,
9   P_Comm      Emp.Comm%TYPE,
10  P_HireDate Emp.HireDate%TYPE,
11  P_MGR Emp.MGR%TYPE
12 )
13 AS
14 BEGIN
15 INSERT INTO
16 Emp (Empno, Ename, Sal, Deptno, Job, Comm, HireDate, MGR)
17 VALUES (P_Empno, UPPER(P_Ename), P_Sal, P_Deptno, UPPER(P_Job),
P_Comm, P_HireDate, P_MGR);
18 EXCEPTION
19 WHEN DUP_VAL_ON_INDEX THEN
20 RAISE_APPLICATION_ERROR(-20001, 'Employee already
21 exists');
22 WHEN OTHERS THEN
23 RAISE_APPLICATION_ERROR(-20011, SQLERRM);
24 END;
25 /
```

Procedure created.

```
SQL> EXEC EmpInsert(7935, 'SURESH', 2000, 30, 'CLERK', NULL, SYSDATE, 30)
BEGIN EmpInsert(7935, 'SURESH', 2000, 30, 'CLERK', NULL, SYSDATE, 30);
END;
```

*

ERROR at line 1:

ORA-20011: ORA-02291: integrity constraint (SCOTT.EMP_SELF_KEY) violated
- parent key not found

ORA-06512: at "SCOTT.EMPINSERT", line 23

ORA-06512: at line 1

```
SQL> ED
```

Wrote file affledt.buf

```
1  CREATE OR REPLACE PROCEDURE
2  EmpInsert
3
4  P_Empno Emp.Empno%TYPE,
5  P_Ename Emp.Ename%TYPE,
6  P_Sal Emp.Sal%TYPE,
7  P_Deptno Emp.Deptno%TYPE,
8  P_Job Emp.Job%TYPE,
9  P_Comm      Emp.Comm%TYPE,
10 P_HireDate Emp.HireDate%TYPE,
11 P_MGR Emp.MGR%TYPE
```

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```
12 )
13 AS
14 BEGIN
15 INSERT INTO
16 Emp (Empno, Ename, Sal, Deptno, Job, Comm, HireDate, MGR)
17 VALUES (P_Empno, UPPER(P_Ename), P_Sal, P_Deptno, UPPER(P_Job),
P_Comm, P_HireDate, P_MGR);
18 EXCEPTION
19 WHEN DUP_VAL_ON_INDEX THEN
20 RAISE_APPLICATION_ERROR(-20001, 'Employee already
21 exists');
22 WHEN OTHERS THEN
23 RAISE_APPLICATION_ERROR(-20011, SQLERRM);
24* END;
SQL> EXEC EmpInsert(7935, 'SURESH', 2000, 30, 'CLERK', NULL, SYSDATE,
7698)
```

PL/SQL procedure successfully completed.

```
SQL> SELECT * FROM Emp
2 WHERE Empno = 7935;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	
COMM	DEPTNO					
	7935	SURESH	CLERK	7698	25-NOV-14	2000

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> DECLARE
2 TYPE EmpRecord
3 IS RECORD
4 (
5 Empno Emp.Empno%TYPE,
6 Ename Emp.Ename%TYPE,
7 Sal Emp.Sal%TYPE,
8 Deptno Emp.Deptno%TYPE,
9 Job Emp.Job%TYPE,
10 Comm Emp.Comm%TYPE,
11 HireDate Emp.HireDate%TYPE,
12 MGR Emp.MGR%TYPE
13 );
```

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```
14 V_EmpRecord EmpRecord;
15 BEGIN
16 V_EmpRecord.Empno := &SEmpno;
17 V_EmpRecord.Ename := '&SEname';
18 V_EmpRecord.Sal := &SSal;
19 V_EmpRecord.Deptno := &SDeptno;
20 V_EmpRecord.Job := '&SJob';
21 V_EmpRecord.Comm := &SComm;
22 V_EmpRecord.HireDate := &SHireDate;
23 V_EmpRecord.MGR := &SMGR;
24 EmpInsert
25 (
26 V_EmpRecord.Empno,
27 V_EmpRecord.Ename,
28 V_EmpRecord.Sal,
29 V_EmpRecord.Deptno,
30 V_EmpRecord.Job,
31 V_EmpRecord.Comm,
32 V_EmpRecord.HireDate,
33 V_EmpRecord.MGR
34 );
35 END;
36 /
```

```
Enter value for sempno: 7935
Enter value for sename: SURESH
Enter value for ssal: 2000
Enter value for sdeptno: 30
Enter value for sjob: CLERK
Enter value for scomm: NULL
Enter value for shiredate: SYSDATE
Enter value for smgr: 7698
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 <<EmpDataDisplay>>
2 DECLARE
3 V_RowCount NUMBER(4);
4 TYPE GenericCursor
5 IS REF CURSOR;
```

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```
6 V_GenericCursor GenericCursor;
7 TYPE TablesRecordType IS RECORD
8 (
9     EmpRecord Emp%ROWTYPE
10 );
11 V_EmpRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Emp;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
18 DBMS_OUTPUT.PUT_LINE(RPAD('EmpNo', 8)|| RPAD('Ename',
12)||RPAD('Job', 12)||RPAD('Deptno',
19 8)||RPAD('Mgr', 10)||RPAD('Hiredate', 12)||RPAD('Sal',
12)||RPAD('Comm', 10));
20 DBMS_OUTPUT.PUT_LINE(RPAD('-', 80, '-'));
21 LOOP
22     FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
23     EXIT WHEN V_GenericCursor%NOTFOUND;
24     V_RowCount := V_GenericCursor%ROWCOUNT;
25 DBMS_OUTPUT.PUT_LINE(RPAD(V_EmpRecordType.EmpRecord.Empno, 8)
26 ||RPAD(V_EmpRecordType.EmpRecord.Ename,
12)||RPAD(V_EmpRecordType.EmpRecord.Job,
27 12)||RPAD(V_EmpRecordType.EmpRecord.Deptno,
28 8)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
29 Manager')||RPAD(V_EmpRecordType.EmpRecord.Hiredate,
30 12)||RPAD(V_EmpRecordType.EmpRecord.Sal,
31 12)||NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
32 END LOOP;
33 CLOSE V_GenericCursor;
34 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
35* END EmpDataDisplay;
36 /
*****Employees
Information*****
```

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
Manager	17-NOV-81	5000	-NA-			
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
-NA-						

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```
.....
7782      CLARK      MANAGER      10      7839      09-JUN-81      2450
-NA-
7566      JONES      MANAGER      20      7839      02-APR-81      2975
-NA-
7654      MARTIN     SALESMAN     30      7698      28-SEP-81      1250
1400
7499      ALLEN      SALESMAN     30      7698      20-FEB-81      1600
300
7844      TURNER     SALESMAN     30      7698      08-SEP-81      1500
0
7900      JAMES      CLERK        30      7698      03-DEC-81      950
-NA-
7521      WARD        SALESMAN     30      7698      22-FEB-81      1250
500
7902      FORD        ANALYST      20      7566      03-DEC-81      3000
-NA-
7369      SMITH        CLERK        20      7902      17-DEC-80      800
-NA-
7788      SCOTT        ANALYST      20      7566      09-DEC-82      3000
-NA-
7876      ADAMS        CLERK        20      7788      12-JAN-83      1100
-NA-
7934      MILLER       CLERK        10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  CREATE OR REPLACE PROCEDURE EmpDataDisplay
2  AS
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9  EmpRecord Emp%ROWTYPE
10 );
11 V_EmpRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Emp;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Employees Information', 49, '*'),
80, '*'));
```

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```
17 DBMS_OUTPUT.PUT_LINE (RPAD('-', 80, '-'));
18 DBMS_OUTPUT.PUT_LINE (RPAD('EmpNo', 8) || RPAD('Ename',
12) || RPAD('Job', 12) || RPAD('Deptno',
19 8) || RPAD('Mgr', 10) || RPAD('Hiredate', 12) || RPAD('Sal',
12) || RPAD('Comm', 10));
20 DBMS_OUTPUT.PUT_LINE (RPAD('-', 80, '-'));
21 LOOP
22     FETCH V_GenericCursor INTO V_EmpRecordType.EmpRecord;
23     EXIT WHEN V_GenericCursor%NOTFOUND;
24     V_RowCount := V_GenericCursor%ROWCOUNT;
25 DBMS_OUTPUT.PUT_LINE (RPAD(V_EmpRecordType.EmpRecord.Empno, 8)
26 || RPAD(V_EmpRecordType.EmpRecord.Ename,
12) || RPAD(V_EmpRecordType.EmpRecord.Job,
27 12) || RPAD(V_EmpRecordType.EmpRecord.Deptno,
28 8) || NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.MGR, 10)), 'No
29 Manager') || RPAD(V_EmpRecordType.EmpRecord.Hiredate,
30 12) || RPAD(V_EmpRecordType.EmpRecord.Sal,
31 12) || NVL(TO_CHAR(RPAD(V_EmpRecordType.EmpRecord.Comm, 12)), '-NA-'));
32 END LOOP;
33 CLOSE V_GenericCursor;
34 DBMS_OUTPUT.PUT_LINE (V_RowCount || ' Rows Processed So Far...');
35* END EmpDataDisplay;
36 /
```

Procedure created.

```
SQL> EXEC EmpDataDisplay
*****Employees
Information*****
```

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450
7566	JONES	MANAGER	20	7839	02-APR-81	2975
7654	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
7499	ALLEN	SALESMAN	30	7698	20-FEB-81	1600

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```
.....
7844      TURNER      SALESMAN      30      7698      08-SEP-81      1500
0
7900      JAMES      CLERK      30      7698      03-DEC-81      950
-NA-
7521      WARD      SALESMAN      30      7698      22-FEB-81      1250
500
7902      FORD      ANALYST      20      7566      03-DEC-81      3000
-NA-
7369      SMITH      CLERK      20      7902      17-DEC-80      800
-NA-
7788      SCOTT      ANALYST      20      7566      09-DEC-82      3000
-NA-
7876      ADAMS      CLERK      20      7788      12-JAN-83      1100
-NA-
7934      MILLER      CLERK      10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  <<DeptDataDisplay>>
2  DECLARE
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9      DeptRecord Dept%ROWTYPE
10 );
11 V_DeptRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Dept;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, ' '));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18 DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8) || RPAD('Dname',
12) || RPAD('Loc', 12));
19 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20 LOOP
21 FETCH V_GenericCursor INTO V_DeptRecordType.DeptRecord;
```

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```
22 EXIT WHEN V_GenericCursor%NOTFOUND;
23 V_RowCount := V_GenericCursor%ROWCOUNT;
24 DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecordType.DeptRecord.Deptno, 8)
||RPAD(V_DeptRecordType.DeptRecord.Dname,
12)||RPAD(V_DeptRecordType.DeptRecord.Dname, 12));
25 END LOOP;
26 CLOSE V_GenericCursor;
27 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
28* END DeptDataDisplay;
SQL> /
*****Department Information*****
```

Deptno	Dname	Loc
10	ACCOUNTING	ACCOUNTING
20	RESEARCH	RESEARCH
30	SALES	SALES
40	OPERATIONS	OPERATIONS

4 Rows Processed So Far...

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 CREATE OR REPLACE PROCEDURE DeptDataDisplay
2 AS
3 V_RowCount NUMBER(4);
4 TYPE GenericCursor
5 IS REF CURSOR;
6 V_GenericCursor GenericCursor;
7 TYPE TablesRecordType IS RECORD
8 (
9 DeptRecord Dept%ROWTYPE
10 );
11 V_DeptRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM Dept;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Department Information', 29, '*'),
49, '*'));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18 DBMS_OUTPUT.PUT_LINE(RPAD('Deptno', 8)|| RPAD('Dname',
12)||RPAD('Loc', 12));
19 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20 LOOP
21 FETCH V_GenericCursor INTO V_DeptRecordType.DeptRecord;
```

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```
22 EXIT WHEN V_GenericCursor%NOTFOUND;
23 V_RowCount := V_GenericCursor%ROWCOUNT;
24 DBMS_OUTPUT.PUT_LINE(RPAD(V_DeptRecordType.DeptRecord.Deptno, 8)
||RPAD(V_DeptRecordType.DeptRecord.Dname,
12)||RPAD(V_DeptRecordType.DeptRecord.Dname, 12));
25 END LOOP;
26 CLOSE V_GenericCursor;
27 DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So Far...');
28* END DeptDataDisplay;
SQL> /
```

Procedure created.

```
SQL> EXEC DeptDataDisplay
*****Department Information*****
```

Deptno	Dname	Loc
10	ACCOUNTING	ACCOUNTING
20	RESEARCH	RESEARCH
30	SALES	SALES
40	OPERATIONS	OPERATIONS
4 Rows Processed So Far...		

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 <<SalGradeDataDisplay>>
2 DECLARE
3 V_RowCount NUMBER(4);
4 TYPE GenericCursor
5 IS REF CURSOR;
6 V_GenericCursor GenericCursor;
7 TYPE TablesRecordType IS RECORD
8 (
9 SalGradeRecord SalGrade%ROWTYPE
10 );
11 V_SalGradeRecordType TablesRecordType;
12 BEGIN
13 OPEN V_GenericCursor
14 FOR
15 SELECT * FROM SalGrade;
16 DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
17 DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
```

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```
18          DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8)|| RPAD('LoSal',
12)||RPAD('HiSal', 12));
19          DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20          LOOP
21          FETCH V_GenericCursor INTO
V_SalGradeRecordType.SalGradeRecord;
22          EXIT WHEN V_GenericCursor%NOTFOUND;
23          V_RowCount := V_GenericCursor%ROWCOUNT;
24
          DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecordType.SalGradeRecord.Grade
, 8) ||RPAD(V_SalGradeRecordType.SalGradeRecord.LoSal,
12)||RPAD(V_SalGradeRecordType.SalGradeRecord.HiSal, 12));
25          END LOOP;
26          CLOSE V_GenericCursor;
27          DBMS_OUTPUT.PUT_LINE(V_RowCount||' Rows Processed So
Far...');
28* END SalGradeDataDisplay;
SQL> /
*****Salary Grade Information*****
```

Grade	LoSal	HiSal
-------	-------	-------

1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

5 Rows Processed So Far..

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1  CREATE OR REPLACE PROCEDURE SalGradeDataDisplay
2  AS
3  V_RowCount NUMBER(4);
4  TYPE GenericCursor
5  IS REF CURSOR;
6  V_GenericCursor GenericCursor;
7  TYPE TablesRecordType IS RECORD
8  (
9  SalGradeRecord SalGrade%ROWTYPE
10 );
11 V_SalGradeRecordType TablesRecordType;
12 BEGIN
13     OPEN V_GenericCursor
14     FOR
```

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```
15      SELECT * FROM SalGrade;
16      DBMS_OUTPUT.PUT_LINE(RPAD(LPAD('Salary Grade Information',
29, '*'), 49, '*'));
17      DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
18      DBMS_OUTPUT.PUT_LINE(RPAD('Grade', 8) || RPAD('LoSal',
12) || RPAD('HiSal', 12));
19      DBMS_OUTPUT.PUT_LINE(RPAD('-', 40, '-'));
20      LOOP
21      FETCH V_GenericCursor INTO
V_SalGradeRecordType.SalGradeRecord;
22      EXIT WHEN V_GenericCursor%NOTFOUND;
23      V_RowCount := V_GenericCursor%ROWCOUNT;
24
      DBMS_OUTPUT.PUT_LINE(RPAD(V_SalGradeRecordType.SalGradeRecord.Grade
, 8) || RPAD(V_SalGradeRecordType.SalGradeRecord.LoSal,
12) || RPAD(V_SalGradeRecordType.SalGradeRecord.HiSal, 12));
25      END LOOP;
26      CLOSE V_GenericCursor;
27      DBMS_OUTPUT.PUT_LINE(V_RowCount || ' Rows Processed So
Far...');
28* END SalGradeDataDisplay;
SQL> /
```

Procedure created.

```
SQL> EXEC SalGradeDataDisplay;
*****Salary Grade Information*****
```

Grade	LoSal	HiSal
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

5 Rows Processed So Far...

PL/SQL procedure successfully completed.

```
SQL> DECLARE
2  V_Table VARCHAR2(30) := UPPER('&GiveTableName');
3  E_IllegalRequest EXCEPTION;
4  BEGIN
5  IF V_Table = 'EMP' THEN
6  EmpDataDisplay;
7  ELSE
8  IF V_Table = 'DEPT' THEN
9  DeptDataDisplay;
```

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```
10 ELSE
11     IF V_Table = 'SALGRADE' THEN
12         SalGradedataDisplay;
13     ELSE
14         RAISE E_IllegalRequest;
15     END IF;
16 END IF;
17 END IF;
18 EXCEPTION
19 WHEN E_IllegalRequest THEN
20 DBMS_OUTPUT.PUT_LINE('Sorry You Either Do Not Have Permissions on
The Table OR The Requested Table Does Not Exist.');
```

```
21 END;
22 /
Enter value for givetablename: Emp
*****Employees
Information*****
```

EmpNo	Ename	Job	Deptno	Mgr	Hiredate	Sal
7839	KING	PRESIDENT	10	No		
Manager17-NOV-81		5000	NA			
7698	BLAKE	MANAGER	30	7839	01-MAY-81	2850
-NA-						
7782	CLARK	MANAGER	10	7839	09-JUN-81	2450
-NA-						
7566	JONES	MANAGER	20	7839	02-APR-81	2975
-NA-						
7654	MARTIN	SALESMAN	30	7698	28-SEP-81	1250
1400						
7499	ALLEN	SALESMAN	30	7698	20-FEB-81	1600
300						
7844	TURNER	SALESMAN	30	7698	08-SEP-81	1500
0						
7900	JAMES	CLERK	30	7698	03-DEC-81	950
-NA-						
7521	WARD	SALESMAN	30	7698	22-FEB-81	1250
500						
7902	FORD	ANALYST	20	7566	03-DEC-81	3000
-NA-						
7369	SMITH	CLERK	20	7902	17-DEC-80	800
-NA-						
7788	SCOTT	ANALYST	20	7566	09-DEC-82	3000
-NA-						

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```
.....
7876      ADAMS      CLERK      20      7788      12-JAN-83      1100
-NA-
7934      MILLER     CLERK      10      7782      23-JAN-82      1300
-NA-
14 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for givetablename: Dept
*****Department Information*****
```

```
-----
Deptno  Dname      Loc
-----
10      ACCOUNTING ACCOUNTING
20      RESEARCH   RESEARCH
30      SALES      SALES
40      OPERATIONS OPERATIONS
4 Rows Processed So Far...
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PROCEDURE
2  MyBonus
3  AS
4  CURSOR DeptCursor
5  IS
6  SELECT Deptno
7  FROM Dept;
8  BEGIN
9  FOR R_GroupBonus IN DeptCursor LOOP
10 UPDATE Emp
11 SET Sal = Sal * 0.95
12 WHERE Deptno = R_GroupBonus.DeptNo;
13 DBMS_OUTPUT.PUT_LINE('The Bonus Information Updated is
'|R_GroupBonus.Deptno);
14 END LOOP;
15 END MyBonus;
16 /
```

Procedure created.

```
SQL> EXEC MyBonus
The Bonus Information Updated is 10
The Bonus Information Updated is 20
The Bonus Information Updated is 30
```

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The Bonus Information Updated is 40

PL/SQL procedure successfully completed.

SQL> SELECT * FROM Emp;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
10	7839 KING	PRESIDENT		17-NOV-81	4750
30	7698 BLAKE	MANAGER	7839	01-MAY-81	2707.5
10	7782 CLARK	MANAGER	7839	09-JUN-81	2327.5
20	7566 JONES	MANAGER	7839	02-APR-81	2826.25
1400	7654 MARTIN	SALESMAN	7698	28-SEP-81	1187.5
	30				
300	7499 ALLEN	SALESMAN	7698	20-FEB-81	1520
	30				
0	7844 TURNER	SALESMAN	7698	08-SEP-81	1425
	30				
30	7900 JAMES	CLERK	7698	03-DEC-81	902.5
500	7521 WARD	SALESMAN	7698	22-FEB-81	1187.5
	30				
20	7902 FORD	ANALYST	7566	03-DEC-81	2850
20	7369 SMITH	CLERK	7902	17-DEC-80	760
20	7788 SCOTT	ANALYST	7566	09-DEC-82	2850
20	7876 ADAMS	CLERK	7788	12-JAN-83	1045
10	7934 MILLER	CLERK	7782	23-JAN-82	1235

14 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> UPDATE Emp
2 SET Sal = Sal * 0.95;

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14 rows updated.

SQL> SELECT * FROM Emp;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL
COMM	DEPTNO				
	7839 KING	PRESIDENT		17-NOV-81	4750
10	7698 BLAKE	MANAGER	7839	01-MAY-81	2707.5
30	7782 CLARK	MANAGER	7839	09-JUN-81	2327.5
10	7566 JONES	MANAGER	7839	02-APR-81	2826.25
20	7654 MARTIN	SALESMAN	7698	28-SEP-81	1187.5
1400	30				
	7499 ALLEN	SALESMAN	7698	20-FEB-81	1520
300	30				
	7844 TURNER	SALESMAN	7698	08-SEP-81	1425
0	30				
	7900 JAMES	CLERK	7698	03-DEC-81	902.5
30					
	7521 WARD	SALESMAN	7698	22-FEB-81	1187.5
500	30				
	7902 FORD	ANALYST	7566	03-DEC-81	2850
20					
	7369 SMITH	CLERK	7902	17-DEC-80	760
20					
	7788 SCOTT	ANALYST	7566	09-DEC-82	2850
20					
	7876 ADAMS	CLERK	7788	12-JAN-83	1045
20					
	7934 MILLER	CLERK	7782	23-JAN-82	1235
10					

14 rows selected.

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

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```
1 CREATE OR REPLACE PROCEDURE
2 EmpBonus
3 AS
4 CURSOR DeptCursor
5 IS
6 SELECT Deptno
7 FROM Dept;
8 BEGIN
9 FOR R_GroupBonus IN DeptCursor
10 LOOP
11 DECLARE
12 E_JobNotFound EXCEPTION;
13 CURSOR EmpCursor
14 IS
15 SELECT *
16 FROM Emp
17 WHERE Deptno = R_GroupBonus.Deptno;
18 BEGIN
19 FOR R_EmpCursor IN EmpCursor
20 LOOP
21 IF R_EmpCursor.Job = 'PRESIDENT'
22 THEN
23 UPDATE Emp
24 SET Sal = Sal + (Sal * 0.40)
25 WHERE Empno = R_EmpCursor.Empno;
26 ELSE
27     IF R_EmpCursor.Job = 'MANAGER'
28     THEN
29     UPDATE Emp
30     SET Sal = Sal + (Sal * 0.35)
31     WHERE Empno = R_EmpCursor.Empno;
32     IF R_EmpCursor.Job = 'ANALYST'
33     THEN
34     UPDATE Emp
35     SET Sal = Sal + (Sal * 0.30)
36     WHERE Empno = R_EmpCursor.Empno;
37     ELSE
38     IF R_EmpCursor.Job = 'SALESMAN'
39     THEN
40     UPDATE Emp
41     SET Sal = Sal + (Sal * 0.25)
42     WHERE Empno = R_EmpCursor.Empno;
43     ELSE
44     IF R_EmpCursor.Job = 'CLERK'
45     THEN
46     UPDATE Emp
47     SET Sal = Sal + (Sal * 0.20)
48     WHERE Empno = R_EmpCursor.Empno;
```

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```
49             ELSE
50             RAISE E_JobNotFound;
51             END IF;
52         END IF;
53     END IF;
54 END IF;
55 END IF;
56 END LOOP;
57 EXCEPTION
58 WHEN E_JobNotFound THEN
59     NULL;
60 END;
61 DBMS_OUTPUT.PUT_LINE('The Bonus Information Updated is
'||R_GroupBonus.Deptno);
62 END LOOP;
63* END EmpBonus;
SQL> /
```

Procedure created.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> <<OddNumber>>
2  DECLARE
3  Num1 NUMBER := &Num1;
4  Num2 NUMBER := &Num2;
5  MyNum NUMBER(4);
6  BEGIN
7  MyNum := Num1;
8  WHILE MyNum < Num2 LOOP
9  IF MOD(MyNum,2) != 0 THEN
10 DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
11 End IF;
12 MyNum := MyNum +1;
13 END LOOP;
14 END;
15 /
Enter value for num1: 10
Enter value for num2: 20
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
```

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The Odd Number : 17

The Odd Number : 19

PL/SQL procedure successfully completed.

SQL> /

Enter value for num1: 15

Enter value for num2: 30

The Odd Number : 15

The Odd Number : 17

The Odd Number : 19

The Odd Number : 21

The Odd Number : 23

The Odd Number : 25

The Odd Number : 27

The Odd Number : 29

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> CREATE OR REPLACE PROCEDURE

2 OddNumber (Num1 NUMBER, Num2 NUMBER)

3 IS

4 MyNum NUMBER(4);

5 BEGIN

6 MyNum := Num1;

7 WHILE MyNum < Num2 LOOP

8 IF MOD(MyNum,2) != 0 THEN

9 DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);

10 End IF;

11 MyNum := MyNum +1;

12 END LOOP;

13 END;

14 /

Procedure created.

SQL> ED

Wrote file afiedt.buf

1 CREATE OR REPLACE PROCEDURE

2 OddNumber (Num1 IN NUMBER, Num2 IN NUMBER)

3 IS

4 MyNum NUMBER(4);

5 BEGIN

6 MyNum := Num1;

7 WHILE MyNum < Num2 LOOP

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```
8 IF MOD(MyNum,2) != 0 THEN
9 DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
10 End IF;
11 MyNum := MyNum +1;
12 END LOOP;
13* END;
SQL> /
```

Procedure created.

```
SQL> --EXEC OddNumber(10, 20) --POSITIONAL Notation
SQL> EXEC OddNumber(10, 20)
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(20, 10)
```

PL/SQL procedure successfully completed.

```
SQL> --EXEC OddNumber(Num2 => 20, Num1 => 10) --NAMED Notation
SQL> EXEC OddNumber(Num2 => 20, Num1 => 10)
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(10)
BEGIN OddNumber(10); END;
```

```

*
ERROR at line 1:
ORA-06550: line 1, column 7:
PLS-00306: wrong number or types of arguments in call to 'ODDNUMBER'
ORA-06550: line 1, column 7:
PL/SQL: Statement ignored
```

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PROCEDURE
```

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```
2 OddNumber (Num1 NUMBER, Num2 NUMBER DEFAULT 20)
3 IS
4 MyNum NUMBER(4);
5 BEGIN
6 MyNum := Num1;
7 WHILE MyNum < Num2 LOOP
8 IF MOD(MyNum,2) != 0 THEN
9 DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
10 End IF;
11 MyNum := MyNum +1;
12 END LOOP;
13 END;
14 /
```

Procedure created.

```
SQL> EXEC OddNumber(10)
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(15, 25)
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
The Odd Number : 21
The Odd Number : 23
```

PL/SQL procedure successfully completed.

```
SQL> CREATE OR REPLACE PROCEDURE
2 OddNumber (Num1 NUMBER DEFAULT 10, Num2 NUMBER DEFAULT 20)
3 IS
4 MyNum NUMBER(4);
5 BEGIN
6 MyNum := Num1;
7 WHILE MyNum < Num2 LOOP
8 IF MOD(MyNum,2) != 0 THEN
9 DBMS_OUTPUT.PUT_LINE('The Odd Number : '||MyNum);
10 End IF;
11 MyNum := MyNum +1;
12 END LOOP;
13 END;
14 /
```

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Procedure created.

```
SQL> EXEC OddNumber
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(5)
The Odd Number : 5
The Odd Number : 7
The Odd Number : 9
The Odd Number : 11
The Odd Number : 13
The Odd Number : 15
The Odd Number : 17
The Odd Number : 19
```

PL/SQL procedure successfully completed.

```
SQL> EXEC OddNumber(5, 15)
The Odd Number : 5
The Odd Number : 7
The Odd Number : 9
The Odd Number : 11
The Odd Number : 13
```

PL/SQL procedure successfully completed.

```
SQL> <<FindEmp>>
2  DECLARE
3      I_Empno NUMBER := &I_Empno;
4      O_Ename VARCHAR2;
5      O_Job VARCHAR2;
6  BEGIN
7      SELECT Ename, Job INTO O_Ename, O_Job
8      FROM Emp
9      WHERE Empno = I_Empno;
10     DBMS_OUTPUT.PUT_LINE('The Data of '||I_Empno||' is '||O_Ename||',
11     ||O_Job);
11  EXCEPTION
12  WHEN NO_DATA_FOUND THEN
13     DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
```

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```
14 END FindEmp;
15 /
Enter value for i_empno: 7839
O_Ename VARCHAR2;
```

ERROR at line 4:

ORA-06550: line 4, column 10:

PLS-00215: String length constraints must be in range (1 .. 32767)

ORA-06550: line 5, column 8:

PLS-00215: String length constraints must be in range (1 .. 32767)

SQL> ED

Wrote file afiedt.buf

```
1 <<FindEmp>>
2 DECLARE
3   I_Empno NUMBER := &I_Empno;
4   O_Ename VARCHAR2(10);
5   O_Job VARCHAR2;
6 BEGIN
7   SELECT Ename, Job INTO O_Ename, O_Job
8   FROM Emp
9   WHERE Empno = I_Empno;
10  DBMS_OUTPUT.PUT_LINE('The Data of '||I_Empno||' is '||O_Ename||',
'||O_Job);
11 EXCEPTION
12 WHEN NO_DATA_FOUND THEN
13  DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
14* END FindEmp;
```

SQL> /

Enter value for i_empno: 7839

O_Job VARCHAR2;

*

ERROR at line 5:

ORA-06550: line 5, column 8:

PLS-00215: String length constraints must be in range (1 .. 32767)

SQL> ED

Wrote file afiedt.buf

```
1 <<FindEmp>>
2 DECLARE
3   I_Empno NUMBER := &I_Empno;
4   O_Ename VARCHAR2(10);
5   O_Job VARCHAR2(10);
```

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```
6 BEGIN
7 SELECT Ename, Job INTO O_Ename, O_Job
8 FROM Emp
9 WHERE Empno = I_Empno;
10 DBMS_OUTPUT.PUT_LINE('The Data of '||I_Empno||' is '||O_Ename||',
'||O_Job);
11 EXCEPTION
12 WHEN NO_DATA_FOUND THEN
13 DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
14* END FindEmp;
SQL> /
```

Enter value for i_empno: 7839
The Data of 7839 is KING, PRESIDENT

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for i_empno: 7788
The Data of 7788 is SCOTT, ANALYST
```

PL/SQL procedure successfully completed.

```
SQL> cl scr
```

```
SQL> CREATE OR REPLACE PROCEDURE
2 FindEmp
3 (
4 I_Empno IN NUMBER,
5 O_Ename OUT VARCHAR2,
6 O_Job OUT VARCHAR2
7 )
8 AS
9 BEGIN
10 SELECT Ename, Job INTO O_Ename, O_Job
11 FROM Emp WHERE Empno = I_Empno;
12 EXCEPTION
13 WHEN NO_DATA_FOUND THEN
14 DBMS_OUTPUT.PUT_LINE('Error in Finding the Details of Employee
Number : '|| I_Empno);
15 END FindEmp;
16 /
```

Procedure created.

```
SQL> VARIABLE Bename VARCHAR2(15)
SQL> VARIABLE BJob VARCHAR2(15)
SQL> EXEC FindEmp(7839, :Bename, :BJob)
```

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PL/SQL procedure successfully completed.

SQL> PRINT BName

BENAME

KING

SQL> PRINT BJob

BJOB

PRESIDENT

SQL> SELECT :BName, :BJob FROM DUAL;

:BENAME

:BJOB

KING

PRESIDENT

SQL> EXEC FindEmp(2234, :BName, :BJob)

Error in Finding the Details of Employee Number : 2234

PL/SQL procedure successfully completed.

SQL> DECLARE

2 V_Ename Emp.Ename%TYPE;

3 V_Job Emp.Job%TYPE;

4 BEGIN

5 FindEmp(7839, V_Ename, V_Job);

6 DBMS_OUTPUT.PUT_LINE('Employee 7839 is : '|| V_Ename||',
'||V_Job||'.');

7 END;

8 /

Employee 7839 is : KING, PRESIDENT.

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

1 DECLARE

2 V_Empno Emp.Empno%TYPE := &GEmpno;

3 V_Ename Emp.Ename%TYPE;

4 V_Job Emp.Job%TYPE;

5 BEGIN

6 FindEmp(V_Empno, V_Ename, V_Job);

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```
7 DBMS_OUTPUT.PUT_LINE('Employee '||V_Empno||' is : '|| V_Ename||',
'||V_Job||'.');
8* END;
```

SQL> /

Enter value for gempno: 7839

Employee 7839 is : KING, PRESIDENT.

PL/SQL procedure successfully completed.

SQL> /

Enter value for gempno: 7654

Employee 7654 is : MARTIN, SALESMAN.

PL/SQL procedure successfully completed.

SQL> /

Enter value for gempno: 2234

Error in Finding the Details of Employee Number : 2234

Employee 2234 is : , .

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Empno Emp.Empno%TYPE := &GEmpno;
3 V_Ename Emp.Ename%TYPE;
4 V_Job Emp.Job%TYPE;
5 BEGIN
6 FindEmp(V_Empno, V_Ename, V_Job);
7 IF V_Ename IS NULL AND V_Job IS NULL
8 THEN
9 DBMS_OUTPUT.PUT_LINE('Server Says '||SQLCODE||' With Message
'||SQLERRM);
10 DBMS_OUTPUT.PUT_LINE('The Requested Employee '||V_Empno||' Not
Found');
11 ELSE
12 DBMS_OUTPUT.PUT_LINE('Employee '||V_Empno||' is : '|| V_Ename||',
'||V_Job||'.');
13 END IF;
14* END;
```

SQL> /

Enter value for gempno: 7839

Employee 7839 is : KING, PRESIDENT.

PL/SQL procedure successfully completed.

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```
SQL> /
Enter value for gempno: 2234
Error in Finding the Details of Employee Number : 2234
Server Says 0 With Message ORA-0000: normal, successful completion
The Requested Employee 2234 Not Found
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> CREATE OR REPLACE PROCEDURE
2  FindEmp
3  (
4  I_Empno IN NUMBER,
5  O_Ename OUT VARCHAR2,
6  O_Job OUT VARCHAR2,
7  O_Error OUT VARCHAR2(100)
8  )
9  AS
10 BEGIN
11 SELECT Ename, Job INTO O_Ename, O_Job
12 FROM Emp WHERE Empno = I_Empno;
13 EXCEPTION
14 WHEN NO_DATA_FOUND THEN
15 O_Error := 'Error in Finding the Details of Employee Number : '||
I_Empno;
16 END FindEmp;
17 /
```

Warning: Procedure created with compilation errors.

```
SQL> SHOW ERRORS
Errors for PROCEDURE FINDEMP:
```

```
LINE/COL ERROR
```

```
7/21 PLS-00103: Encountered the symbol "(" when expecting one of the
following:
:= . ) , @ % default character
The symbol "!=" was substituted for "(" to continue.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 CREATE OR REPLACE PROCEDURE
```

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```
2 FindEmp
3 (
4 I_Empno IN NUMBER,
5 O_Ename OUT VARCHAR2,
6 O_Job OUT VARCHAR2,
7 O_Error OUT VARCHAR2
8 )
9 AS
10 BEGIN
11 SELECT Ename, Job INTO O_Ename, O_Job
12 FROM Emp WHERE Empno = I_Empno;
13 EXCEPTION
14 WHEN NO_DATA_FOUND THEN
15 O_Error := 'Error in Finding the Details of Employee Number : '||
I_Empno;
16* END FindEmp;
SQL> /
```

Procedure created.

```
SQL> DECLARE
2 V_Ename Emp.Ename%TYPE;
3 V_Job Emp.Job%TYPE;
4 V_ProcMSG VARCHAR2(100);
5 BEGIN
6 FindEmp(7839, V_Ename, V_Job, V_ProcMSG);
7 IF V_ProcMSG IS NOT NULL THEN
8 DBMS_OUTPUT.PUT_LINE('Employee 7839 is : '||V_Ename||',
'||V_Job||'.');
9 ELSE
10 DBMS_OUTPUT.PUT_LINE('Failed : '||V_ProcMSG);
11 END IF;
12 END;
13 /
Failed :
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 DECLARE
2 V_Ename Emp.Ename%TYPE;
3 V_Job Emp.Job%TYPE;
4 V_ProcMSG VARCHAR2(100);
5 BEGIN
6 FindEmp(7839, V_Ename, V_Job, V_ProcMSG);
7 IF V_ProcMSG IS NULL THEN
```

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```
8 DBMS_OUTPUT.PUT_LINE('Employee 7839 is : '||V_Ename||',
'||V_Job||'.');
9 ELSE
10 DBMS_OUTPUT.PUT_LINE('Failed : '||V_ProcMSG);
11 END IF;
12* END;
```

SQL> /

Employee 7839 is : KING, PRESIDENT.

PL/SQL procedure successfully completed.

SQL> ED

Wrote file afiedt.buf

```
1 DECLARE
2 V_Ename Emp.Ename%TYPE;
3 V_Job Emp.Job%TYPE;
4 V_ProcMSG VARCHAR2(100);
5 BEGIN
6 FindEmp(2234, V_Ename, V_Job, V_ProcMSG);
7 IF V_ProcMSG IS NULL THEN
8 DBMS_OUTPUT.PUT_LINE('Employee 7839 is : '||V_Ename||',
'||V_Job||'.');
9 ELSE
10 DBMS_OUTPUT.PUT_LINE('Failed : '||V_ProcMSG);
11 END IF;
12* END;
```

SQL> /

Failed : Error in Finding the Details of Employee Number : 2234

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> <<EmpInfo>>

```
2 DECLARE
3 I_Deptno NUMBER := &I_Deptno;
4 CURSOR EmpInfoCursor IS
5 SELECT Ename, Job, Sal, Comm
6 FROM Emp
7 WHERE Deptno = I_Deptno;
8 EmpRecord EmpInfoCursor%ROWTYPE;
9 NEmployees NUMBER := 0;
10 TSalary NUMBER := 0;
```

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```
11 AVGSalary NUMBER(7,2) := 0;
12 MAXSalary NUMBER(7,2) := 0;
13 BEGIN
14 OPEN EmpInfoCursor;
15 LOOP
16 FETCH EmpInfoCursor INTO EmpRecord;
17 EXIT WHEN EmpInfoCursor%NOTFOUND;
18 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
19 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
20 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
21 DBMS_OUTPUT.PUT_LINE('Employee Comission : '||EmpRecord.Comm);
22 DBMS_OUTPUT.PUT_LINE('*****');
23 TSalary := TSalary + EmpRecord.Sal;
24 NEmployees := NEmployees + 1;
25 IF EmpRecord.Sal > MAXSalary THEN
26 MAXSalary := EmpRecord.Sal;
27 END IF;
28 END LOOP;
29 AVGSalary := TSalary / NEmployees;
30 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
31 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
32 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
33 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
34 CLOSE EmpInfoCursor;
35 END EmpInfo;
36 /
```

```
Enter value for i_deptno: 10
Employee Name : KING
Employee Job : PRESIDENT
Employee Salary : 5000
Employee Comission :
*****
Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Comission :
*****
Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Comission :
*****
Number of Employees : 3
Total Salary : 8750
Maximum Salary : 5000
Average Salary : 2916.67
```

PL/SQL procedure successfully completed.

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SQL> ED

Wrote file afiedt.buf

```
1  CREATE OR REPLACE PROCEDURE EmpInfo(I_Deptno IN NUMBER)
2  AS
3  CURSOR EmpInfoCursor IS
4  SELECT Ename, Job, Sal, Comm
5  FROM Emp
6  WHERE Deptno = I_Deptno;
7  EmpRecord EmpInfoCursor%ROWTYPE;
8  NEmployees NUMBER := 0;
9  TSalary NUMBER := 0;
10 AVGSalary NUMBER(7,2) := 0;
11 MAXSalary NUMBER(7,2) := 0;
12 BEGIN
13 OPEN EmpInfoCursor;
14 LOOP
15 FETCH EmpInfoCursor INTO EmpRecord;
16 EXIT WHEN EmpInfoCursor%NOTFOUND;
17 DBMS_OUTPUT.PUT_LINE('Employee Name : '||EmpRecord.Ename);
18 DBMS_OUTPUT.PUT_LINE('Employee Job : '||EmpRecord.Job);
19 DBMS_OUTPUT.PUT_LINE('Employee Salary : '||EmpRecord.Sal);
20 DBMS_OUTPUT.PUT_LINE('Employee Commission : '||EmpRecord.Comm);
21 DBMS_OUTPUT.PUT_LINE('*****');
22 TSalary := TSalary + EmpRecord.Sal;
23 NEmployees := NEmployees + 1;
24 IF EmpRecord.Sal > MAXSalary THEN
25 MAXSalary := EmpRecord.Sal;
26 END IF;
27 END LOOP;
28 AVGSalary := TSalary / NEmployees;
29 DBMS_OUTPUT.PUT_LINE('Number of Employees : '||NEmployees);
30 DBMS_OUTPUT.PUT_LINE('Total Salary : '||TSalary);
31 DBMS_OUTPUT.PUT_LINE('Maximum Salary : '||MAXSalary);
32 DBMS_OUTPUT.PUT_LINE('Average Salary : '||AVGSalary);
33 CLOSE EmpInfoCursor;
34* END EmpInfo;
SQL> /
```

Procedure created.

SQL> EXEC EmpInfo(10)

Employee Name : KING

Employee Job : PRESIDENT

Employee Salary : 5000

Employee Commission :

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Employee Name : CLARK
Employee Job : MANAGER
Employee Salary : 2450
Employee Commission :

Employee Name : MILLER
Employee Job : CLERK
Employee Salary : 1300
Employee Commission :

Number of Employees : 3
Total Salary : 8750
Maximum Salary : 5000
Average Salary : 2916.67

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ED
Wrote file afiedt.buf

```
1  CREATE OR REPLACE PROCEDURE
2  EmployeeInsert(
3      PEmpno          IN Emp.Empno%TYPE,
4      PEname          IN Emp.Ename%TYPE,
5      PJob            IN Emp.Job%TYPE,
6      PSal            IN Emp.Sal%TYPE,
7      PComm          IN Emp.Comm%TYPE,
8      PDeptno         IN Emp.Deptno%TYPE,
9      PMGR            IN Emp.MGR%TYPE,
10     PHireDate        IN Emp.HireDate%TYPE
11
12  IS
13  TYPE ValidateInsertValues
14  IS
15  RECORD
16  (
17      SalaryLess          NUMBER(4),
18      SalaryMore          NUMBER(6)
19  );
20  ValidateRecordValues    ValidateInsertValues;
21  TYPE CheckBits
22  IS
23  RECORD
24  (
25      CheckJobBit         BOOLEAN,
26      CheckDeptnoBit      BOOLEAN,
```

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```
27 CheckMGRBit      BOOLEAN,
28 CheckHireDateBit  BOOLEAN,
29 CheckSalBit       BOOLEAN
30 );
31 CheckBitsInstance CheckBits;
32 E_ForeignKeyEXCEPTION;
33 PRAGMA EXCEPTION_INIT(E_ForeignKey, -2292);
34 E_NotNULLViolation EXCEPTION;
35 PRAGMA EXCEPTION_INIT(E_NotNULLViolation, -1400);
36 E_CheckViolation   EXCEPTION;
37 PRAGMA EXCEPTION_INIT(E_CheckViolation, -2290);
38 BEGIN
39 CheckJob(PJob, CheckBitsInstance.CheckJobBit);
40 CheckDeptno(PDeptno, CheckBitsInstance.CheckDeptnoBit);
41 CheckMGRNO(PMGR, CheckBitsInstance.CheckMGRBit);
42 CheckHireDate(PHireDate, CheckBitsInstance.CheckHireDateBit);
43 CheckSalary(PSal, CheckBitsInstance.CheckSalBit);
44 IF CheckBitsInstance.CheckJobBit THEN
45     IF CheckBitsInstance.CheckDeptnoBit THEN
46         IF CheckBitsInstance.CheckMGRBit THEN
47             IF CheckBitsInstance.CheckHireDateBit THEN
48                 IF CheckBitsInstance.CheckSalBit THEN
49                     INSERT INTO Emp(Empno, Ename, Job, Sal,
Comm, Deptno, MGR, HireDate)
50                     VALUES(PEmpno, PEname, PJob, PSal, PComm,
PDeptno, PMGR, PHireDate);
51                     COMMIT;
52                     DBMS_OUTPUT.PUT_LINE('Your Record is
Inserted Successfully...');
53                 ELSE
54                     DBMS_OUTPUT.PUT_LINE('Insert Failed Due To
Problem in Salary Values Out of Range');
55                 END IF;
56             ELSE
57                 DBMS_OUTPUT.PUT_LINE('Insert Failed Due To Problem
in Hire Date Not Matching With Server Standards.');

---


```

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```
67 END IF;
68 EXCEPTION
69 WHEN DUP_VAL_ON_INDEX THEN
70 DBMS_OUTPUT.PUT_LINE('Sorry, The Field With Unique Value is Getting
Duplicated. Hence Insert is Cancelled.');
```

71 ROLLBACK;

```
72 WHEN E_CheckViolation THEN
73 DBMS_OUTPUT.PUT_LINE('A Field with Check Constraint is not Attended
Properly, Please Check Properly. Hence Insert is Cancelled.');
```

74 ROLLBACK;

```
75 WHEN E_NotNULLViolation THEN
76 DBMS_OUTPUT.PUT_LINE('A Field which Cannot be NULL, is not attended,
Please Check Properly. Hence Insert is Cancelled.');
```

77 ROLLBACK;

```
78 WHEN E_ForeignKey THEN
79 DBMS_OUTPUT.PUT_LINE('A Field is Violating The Parent Child
Relation. Hence Insert is Cancelled.');
```

80 ROLLBACK;

```
81* END EmployeeInsert;
SQL> /
```

Warning: Procedure created with compilation errors.

SQL> SHOW ERRORS

Errors for PROCEDURE EMPLOYEEINSERT:

LINE/COL ERROR

```
-----
-
39/1      PL/SQL: Statement ignored
39/1      PLS-00201: identifier 'CHECKJOB' must be declared
40/1      PL/SQL: Statement ignored
40/1      PLS-00201: identifier 'CHECKDEPTNO' must be declared
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
```

SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT;

Errors for PROCEDURE EMPLOYEEINSERT:

LINE/COL ERROR

```
-----
-
39/1      PL/SQL: Statement ignored
39/1      PLS-00201: identifier 'CHECKJOB' must be declared
40/1      PL/SQL: Statement ignored
-----
```

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```
40/1      PLS-00201: identifier 'CHECKDEPTNO' must be declared
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckJob(PCheckJob IN Emp.Job%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_JobExists          NUMBER(2);
  5  V_Job                Emp.Job%TYPE;
  6  E_NoJob              EXCEPTION;
  7  BEGIN
  8  SELECT
  9    COUNT(*)
 10  INTO
 11    V_JobExists
 12  FROM Emp
 13  WHERE Job = PCheckJob;
 14  IF V_JobExists = 0
 15  THEN
 16    RAISE E_NoJob;
 17  ELSE
 18  SELECT
 19    DISTINCT Job
 20  INTO
 21    V_Job
 22  FROM Emp
 23  WHERE Job = PCheckJob;
 24  DBMS_OUTPUT.PUT_LINE('Success! '||V_Job||' is Found...');
 25  PChkBit := TRUE;
 26  END IF;
 27  EXCEPTION
 28  WHEN E_NoJob THEN
 29  DBMS_OUTPUT.PUT_LINE('Sorry, The Job '||PCheckJob||' To be Inserted
is Not Acceptable. ');
 30  ROLLBACK;
 31  END CheckJob;
 32
```

Procedure created.

```
SQL> ALTER PROCEDURE EMPLOYEEINSERT COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT
```

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Errors for PROCEDURE EMPLOYEEINSERT:

LINE/COL ERROR

```
40/1      PL/SQL: Statement ignored
40/1      PLS-00201: identifier 'CHECKDEPTNO' must be declared
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckDeptno(PCheckDeptno IN Emp.Deptno%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_DeptnoExists          NUMBER(2);
  5  V_Deptno                Emp.Job%TYPE;
  6  E_NoDept                EXCEPTION;
  7  BEGIN
  8  SELECT
  9    COUNT(*)
 10  INTO
 11    V_DeptnoExists
 12  FROM Emp
 13  WHERE Deptno = PCheckDeptno;
 14  IF V_DeptnoExists = 0
 15  THEN
 16    RAISE E_NoDept;
 17  ELSE
 18  SELECT
 19    DISTINCT Deptno
 20  INTO
 21    V_Deptno
 22  FROM Dept
 23  WHERE Deptno = PCheckDeptno;
 24  DBMS_OUTPUT.PUT_LINE('Success! '||V_Deptno||' is Found...');
 25  PChkBit := TRUE;
 26  END IF;
 27  EXCEPTION
 28  WHEN E_NoDept THEN
 29    DBMS_OUTPUT.PUT_LINE('Sorry, The Department Number
 30  |PCheckDeptno||' To be Inserted is Not Acceptable.');
```

Procedure created.

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```
SQL> ALTER PROCEDURE EMPLOYEEINSERT COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT
Errors for PROCEDURE EMPLOYEEINSERT:
```

```
LINE/COL ERROR
```

```
41/1      PL/SQL: Statement ignored
41/1      PLS-00201: identifier 'CHECKMGRNO' must be declared
42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckMGRNO(PCheckMGRNO IN Emp.Deptno%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_MGRNOExists          NUMBER(2);
  5  V_MgrNo                Emp.MGR%TYPE;
  6  E_InvalidManager      EXCEPTION;
  7  BEGIN
  8  SELECT
  9    COUNT(*)
 10  INTO
 11    V_MGRNOExists
 12  FROM Emp
 13  WHERE MGR = PCheckMGRNO;
 14  IF V_MGRNOExists = 0
 15  THEN
 16    RAISE E_InvalidManager;
 17  ELSE
 18  SELECT
 19    DISTINCT MGR
 20  INTO
 21    V_MgrNo
 22  FROM Emp
 23  WHERE MGR = PCheckMGRNO;
 24  DBMS_OUTPUT.PUT_LINE('Success! ' || V_MgrNo || ' is Found...');
 25  PChkBit := TRUE;
 26  END IF;
 27  EXCEPTION
 28  WHEN E_InvalidManager THEN
 29    DBMS_OUTPUT.PUT_LINE('Sorry, The Manager Number ' || PCheckMGRNO || ' To
be Inserted is Not Acceptable.');
```

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```
31 END CheckMGRNO;
32 /
```

Procedure created.

```
SQL> ALTER PROCEDURE EMPLOYEEINSERT COMPILE;
```

Warning: Procedure altered with compilation errors.

```
SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT
Errors for PROCEDURE EMPLOYEEINSERT:
```

LINE/COL ERROR

```

42/1      PL/SQL: Statement ignored
42/1      PLS-00201: identifier 'CHECKHIREDATE' must be declared
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL>
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckHireDate(PCheckHireDate IN Emp.HireDate%TYPE, PChkBit OUT
BOOLEAN)
  3  IS
  4  V_CurrentDate      Emp.HireDate%TYPE;
  5  E_InvalidHireDate   EXCEPTION;
  6  BEGIN
  7  SELECT
  8  SYSDATE
  9  INTO
 10  V_CurrentDate
 11  FROM DUAL;
 12  V_CurrentDate := TO_DATE(TO_CHAR(V_CurrentDate, 'DD-MON-YY'), 'DD-
MON-YY');
 13  IF V_CurrentDate <> PCheckHireDate
 14  THEN
 15    RAISE E_InvalidHireDate;
 16  ELSE
 17    DBMS_OUTPUT.PUT_LINE('Success! ' || V_CurrentDate || ' Matches The
Server Clock. ');
 18    PChkBit := TRUE;
 19  END IF;
 20  EXCEPTION
 21  WHEN E_InvalidHireDate THEN
 22    DBMS_OUTPUT.PUT_LINE('Sorry, The Hire Date ' || PCheckHireDate || ' To
be Inserted is Not Acceptable. ');
 23  ROLLBACK;
 24  END CheckHireDate;
```

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25 /

Procedure created.

SQL> ALTER PROCEDURE EMPLOYEEINSERT COMPILE;

Warning: Procedure altered with compilation errors.

SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT
Errors for PROCEDURE EMPLOYEEINSERT:

LINE/COL ERROR

```
43/1      PL/SQL: Statement ignored
43/1      PLS-00201: identifier 'CHECKSALARY' must be declared
SQL> CREATE OR REPLACE PROCEDURE
  2  CheckSalary(PCheckSalary IN Emp.Sal%TYPE, PChkBit OUT BOOLEAN)
  3  IS
  4  V_SalaryLess          NUMBER(6);
  5  V_SalaryMore          NUMBER(6);
  6  E_SalLess             EXCEPTION;
  7  E_SalMore             EXCEPTION;
  8  BEGIN
  9  V_SalaryLess := 500;
 10  V_SalaryMore := 150000;
 11  IF PCheckSalary < V_SalaryLess
 12  THEN
 13    RAISE E_SalLess;
 14  ELSIF PCheckSalary > V_SalaryMore
 15  THEN
 16    RAISE E_SalMore;
 17  END IF;
 18  DBMS_OUTPUT.PUT_LINE('Success! The Salary '||PCheckSalary||' is
Acceptable.');
```

```
19  PChkBit := TRUE;
20  EXCEPTION
21  WHEN E_SalLess THEN
22    DBMS_OUTPUT.PUT_LINE('Sorry, The Salary '||PCheckSalary||' To be
Inserted is Less Than The Acceptable Value.');
```

```
23  ROLLBACK;
24  WHEN E_SalMore THEN
25    DBMS_OUTPUT.PUT_LINE('Sorry, The Salary '||PCheckSalary||' To be
Inserted is More Than The Acceptable Value.');
```

```
26  ROLLBACK;
27  END CheckSalary;
28  /
```

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Procedure created.

```
SQL> ALTER PROCEDURE EMPLOYEEINSERT COMPILE;
```

Procedure altered.

```
SQL> SHOW ERRORS PROCEDURE EMPLOYEEINSERT
```

No errors.

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
 2  V_Empno          Emp.Empno%TYPE := &Empno;
 3  V_Ename          Emp.Ename%TYPE := '&Ename';
 4  V_Job            Emp.Job%TYPE := '&Job';
 5  V_Sal            Emp.Sal%TYPE := &Sal;
 6  V_Comm          Emp.Comm%TYPE := &Commission;
 7  V_Deptno        Emp.Deptno%TYPE := &Deptno;
 8  V_MGR            Emp.MGR%TYPE := &MGR;
 9  V_HireDate       Emp.HireDate%TYPE := '&HireDate';
10 BEGIN
11 EmployeeInsert(V_Empno, V_Ename, V_Job, V_Sal, V_Comm, V_Deptno,
V_MGR, V_HireDate);
12 END;
13 /
```

```
Enter value for empno: 7935
Enter value for ename: SURESH
Enter value for job: CLERK
Enter value for sal: 2000
Enter value for commission: NULL
Enter value for deptno: 30
Enter value for mgr: 7698
Enter value for hiredate: 25-NOV-14
Success! CLERK is Found...
Success! 30 is Found...
Success! 7698 is Found...
Success! 25-NOV-14 Matches The Server Clock.
Success! The Salary 2000 is Acceptable.
Your Record is Inserted Successfully...
```

PL/SQL procedure successfully completed.

```
SQL> /
```

```
Enter value for empno: 7937
Enter value for ename: SAMPATH
Enter value for job: SRCLERK
Enter value for sal: 1500
Enter value for commission: NULL
Enter value for deptno: 70
```

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```
Enter value for mgr: 7654
Enter value for hiredate: 20-NOV-14
Sorry, The Job SRCLERK To be Inserted is Not Acceptable.
Sorry, The Department Number 70 To be Inserted is Not Acceptable.
Sorry, The Manager Number 7654 To be Inserted is Not Acceptable.
Sorry, The Hire Date 20-NOV-14 To be Inserted is Not Acceptable.
Success! The Salary 1500 is Acceptable.
Insert Failed Due To Problem in Designation Not Suitable To The
Organization.

PL/SQL procedure successfully completed.

SQL> SPOOL OFF
```

Oracle BY Sathish Yellanki (SkyEss)

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